



## TANDBERG Personal Telepresence 1700

Personal telepresence designed for the office, the 1700 features a superior HD camera and a widescreen LCD. This fully integrated system enables seamless face-to-face telepresence collaboration right at the desktop.



**HD** Side view

#### DESIGN FEATURES

- All-in-one executive control center designed for offices
- Compact HD Camera
- Integrated 20" widescreen LCD
- Powerful presentation, multimedia and conferencing capabilities

#### APPLICATION FEATURES

- Join up to 4 video sites and 3 audio sites with embedded MultiSite functionality
- Best possible call for each MultiSite participant with rate matching and transcoding
- Powerful live presentations through one-step PC plug-in
- View presentations and presenter simultaneously
- TANDBERG Expressway™ Technology
- URI Dialing

#### PERFORMANCE FEATURES

- Up to 2 Mbps H.323/2 Mbps SIP/2.3 Mbps total Multisite
- Highest level of embedded encryption as well as H.235 and IEEE 802.1x authentication
- True CD-quality audio
- Protection against network interruptions in point-to-point and multipoint calls with automatic Downsampling and IPLR
- Superior video quality incorporating the H.264 standard

PROTECT YOUR TECHNOLOGY INVESTMENT WITH  
TANDBERG'S PORTFOLIO OF **CONSTANT CARE SERVICES**.  
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See: **performance**

UNIT DELIVERED COMPLETE WITH:

Integrated HD Camera with camera cover, 20" Widescreen LCD, wireless remote control, microphone and cables

LCD SCREEN

Widescreen LCD (16:9)  
Wide view angle screen  
WXGA; 1366 x 768  
Auto or manual brightness

BANDWIDTH

H.323 up to 2 Mbps  
SIP up to 2 Mbps

FIREWALL TRAVERSAL

TANDBERG Expressway Technology™  
Auto NAT  
H.460.18, H.460.19 Firewall Traversal

VIDEO STANDARDS

H.261, H.263, H.263+, H.263++ (Natural Video), H.264

VIDEO FEATURES

Native 16:9 Widescreen  
Advanced Screen Layouts  
Picture in Picture (PIP)  
Picture outside Picture (POP) & Large POP  
Side by Side  
PC Zoom  
Intelligent Video Management  
Local Auto Layout

VIDEO INPUTS

1 x DVI-I / SXGA; PC  
PC using VNC (SoftPresenter)  
1 x DVI-I; PC  
Input: 800 x 600 (@ 60, 72, 75, 85 Hz), 1024 x 768  
(@ 60, 70, 75 Hz), 1280 x 720 (HD720P) (@ 50, 60 Hz),  
1280 x 1024 @ 60/Hz  
Extended Display Identification Data (EDID)

VIDEO FORMAT

NTSC, PAL, VGA, SVGA, XGA, W-XGA, SXGA and HD720p

LIVE VIDEO RESOLUTIONS

NATIVE NTSC:

400p (528 x 400 pixels)  
4SIF (704 x 480 pixels), Digital Clarity  
Interlaced SIF (ISIF 352 x 480 pixels), Natural Video  
SIF (352 x 240 pixels)

NATIVE PAL:

448p (576 x 448 pixels)  
4CIF (704 x 576 pixels), Digital Clarity  
Interlaced CIF (ICIF 352 x 576 pixels), Natural Video  
CIF (352 x 288 pixels)  
QCIF (176 x 144 pixels)  
SQCIF (128 x 96 pixels) decode only

NATIVE PC RESOLUTIONS:

XGA (1024 x 768 pixels)  
SVGA (800 x 600 pixels)  
VGA (640 x 480 pixels)

WIDE RESOLUTIONS:

w288p (512 x 288 pixels)  
w448p (768 x 448 pixels)  
w576p (1024 x 576 pixels)  
w720p (1280 x 720 pixels)

STILL IMAGE TRANSFER

CIF, SIF, 4CIF (H.261 Annex D), 4SIF, VGA, SVGA, XGA

AUDIO STANDARDS

G.711, G.722, G.722.1, G.728, 64 bit & 128 bit MPEG4 AAC-LD

AUDIO FEATURES

CD-Quality 20 KHz Mono and Stereo  
Telephone add-on via MultiSite  
Two separate acoustic echo cancellers  
Audio mixer  
Automatic Gain Control (AGC)  
Automatic Noise Reduction  
Audio level meters  
VCR ducking  
Packet loss management  
Active lip synchronization  
GSM interference audio feature

PRIVACY FEATURE

Headset Microphone: 3.5mm Jack  
Headset loudspeaker: 3.5mm Stereo Jack

AUDIO INPUTS (2 INPUTS)

2 Built-in microphones  
PC Audio input: 3.5mm Stereo Jack

FRAME RATES

30 frames per second @ 168 kbps and above  
60 fields per second @ 336 kbps and above (Point-to-point)

DUAL STREAM

DuoVideo  
H.239 dual stream  
Dynamic bandwidth adjustment (H.323)  
Available on H.323, H.320 & SIP  
Available in MultiSite from any site  
BFCF

NETWORK FEATURES

SIP  
Downspeeding  
Programmable network profiles  
Intelligent Call Management  
Maximum call length timer  
URI Dialing

MULTISITE FEATURES

H.323/SIP/Telephony/VoIP in the same conference  
Audio and Video Transcoding  
Video rate matching from 56 kbps — maximum conference rate  
CP4 and Voice Switched  
Best Impression (Automatic CP Layouts)  
H.264, Encryption, Digital Clarity  
Dual Stream from any site  
ISDN & IP Downspeeding and IPLR  
MultiSite (H.243) Cascading on H.323  
Unicode H.243 Terminal Names  
Dial in/Dial out  
Chair control for host system  
Snapshot of ongoing conference (JPEG)  
Snapshot of ongoing DuoVideo/H.239 presentation (JPEG)  
Separate welcome page for encrypted conferences  
Conference rates up to 2.3 Mbps  
Up to 4 video and 3 audio sites  
4 sites @ 768 kbps (+telephone calls)  
Multiway (Beta)

EMBEDDED ENCRYPTION

H.323, H.320 & SIP point-to-point and multipoint calls  
Standards-based: H.233, H.234, H.235 v2&v3, DES and AES  
NIST-validated AES  
NIST-validated DES  
Automatic key generation and exchange  
Supported in Dual Stream & MultiSite

IP NETWORK FEATURES

IEEE 802.1x/EAP Network Authentication  
H.235 Gatekeeper Authentication  
DNS lookup for service configuration  
Differentiated Services (DiffServ)  
Resource Reservation Protocol (RSVP)  
IP precedence  
IP type of service (ToS)  
IP adaptive bandwidth management (including flow control)  
Auto gatekeeper discovery  
Dynamic playout and lip-sync buffering  
Intelligent Packet Loss Recovery (IPLR)  
H.245 DTMF tones in H.323  
Cisco CallManager integration using ECS  
IP Address Conflict Warning  
Date and Time support via NTP  
Call Services

IPv6 NETWORK SUPPORT

Dual Stack IPv4 and IPv6 simultaneous support  
Net service support on IPv6: Telnet, SSH, HTTP, HTTPS,  
ftp, SNMP, DNS, NTP, DHCP  
Media support on IPv6: H.323, SIP, Streaming

SECURITY FEATURES

Management via HTTPS and SSH  
IP Administration Password  
Menu Administration Password  
Dialing Access code  
Streaming password  
H.243 MCU Password  
VNC password  
SNMP security alerts  
Disable IP services  
MD-5 Challenge  
Network Settings protection  
SIP Authentication via NTLM  
SIP Authentication via Digest  
FIPS Mode

NETWORK INTERFACES

Internal 2 port Ethernet switch  
1 x LAN/Ethernet (RJ-45) 10/100 Mbit for PC  
1 x LAN/Ethernet (RJ-45) 10/100 Mbit (LAN/DSL/cable modem)  
1 x USB for future usage

ETHERNET/INTERNET/INTRANET CONNECTIVITY

TCP/IP, DHCP, ARP, FTP, Telnet, HTTP, HTTPS, SOAP and XML,  
MD-5 Challenge  
SNMP Enterprise Management  
Internal web server  
Internal streaming server

OTHER MAJOR STANDARDS SUPPORTED

H.231, H.233, H.234, H.235 v2&v3, H.239, H.241, H.243,  
H.281, H.323,  
RFC 3261, RFC 2237, RFC 3264, RC 3311, RFC 3550,  
RFC 2032, RFC 2190, RFC 2429, RFC 3407

CAMERA

1/3" CMOS 65° horizontal field of view  
38° vertical field of view (monitor and camera tilt)  
88° total vertical field of view (with monitor and camera tilt)  
Manual focus  
Automatic or manual brightness/whitebalance  
Focus distance 0.3m-infinity  
1280 x 720 pixels progressive @ 30fps

CLOSED CAPTIONING/TEXT CHAT

T.140 text chat available from Telnet, Web and User Interface

PRESENTATIONS AND COLLABORATION

Natural Presenter Package including:  
PC Presenter (DVI-I, SXGA In)  
PC SoftPresenter  
Digital Clarity & Native Formats  
Advanced Video Layouts  
Streaming compatible with Cisco IP/TV,  
Apple QuickTime®, RealPlayer® v8 etc.

SYSTEM MANAGEMENT

Support for Local directories (My Contacts),  
Corporate Directory and Global Directory  
Total management via embedded web server, SNMP,  
Telnet, SSH, FTP and SOAP  
Remote software upload: via Web server, ftp server or ISDN  
1 x RS-232 local control and diagnostics  
Remote control and on-screen menu system  
External Services from TMS

DIRECTORY SERVICES

Support for Local, Global and Dynamic Server Directories  
Unlimited entries using Server directory\* supporting  
LDAP and H.350  
Unlimited number for Corporate directory (through by TMS)  
400 number global directory  
200 number local directory  
16 dedicated MultiSite entries  
Received Calls with Date and Time  
Directories in Local Languages  
Placed Calls with Date and Time  
Missed Calls with Date and Time

17 SELECTABLE MENU LANGUAGES

Arabic, Simplified Chinese, Traditional Chinese, Danish, English,  
French, German, Italian, Japanese, Korean, Norwegian,  
Portuguese, Russian, Spanish, Suomi, Swedish and Thai  
Chinese, Korean and Japanese Input Method Editor  
Import Custom Language through TMS

CUSTOMIZED WELCOME SCREEN AND COMPANY LOGO

Picture JPEG (logo.jpg): Recommended maximum size is  
704x576 for Welcome Screen and 352x288 for Encryption  
Required Screen

POWER

Auto-sensing power supply 100–250 VAC, 50–60 Hz  
120W MAX

OPERATING TEMPERATURE AND HUMIDITY

0°C to 40°C (32°F to 104°F) ambient temperature  
Up to 90% Relative Humidity (RH)

STORAGE AND TRANSPORT TEMPERATURE

-20°C to 60° (-4°F to 140°) at RH 10–90% (non-condensing)

APPROVALS

Directive 73/23/EEC (Low Voltage Directive)  
— Standard EN 60950-1 /IEC60950-1  
Directive 89/336/EEC (EMC Directive)  
— Standard EN 55022, Class B- Standard EN 55024  
— Standard EN 61000-3-2/-3-3  
Approved according to UL 60950-1and CAN/CSA C22.2  
No. 60950-1  
Complies with FCC15B Class B

UNIT DIMENSIONS

Height: 51.0 cm (20.1 inches)  
Width: 50.0 cm (19.7 inches)  
Depth: 16.0 cm (6.3 inches) Footprint: 35.4 cm  
(13.9 inches) wide x 16.0 cm (6.3 inches) deep  
Weight: 9.90 kg (21.8 lbs)

\* Requires TANDBERG Management Suite 9 or newer

All specifications subject to change without notice,  
system specifics may vary.

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MTBF PRODUCT RELIABILITY/MTBF

The predicted reliability is expressed in the expected  
random Mean Time Between Failures (MTBF) for the  
electronic components based on the Power On Hours:  
Power On Hours (POH) > 69 000 hours  
Useful Life Cycle > 6 years  
ISO 9001 certificate is available upon request

TANDBERG

Personal Telepresence  
1700

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